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## KOREAN PATENT ABSTRACTS

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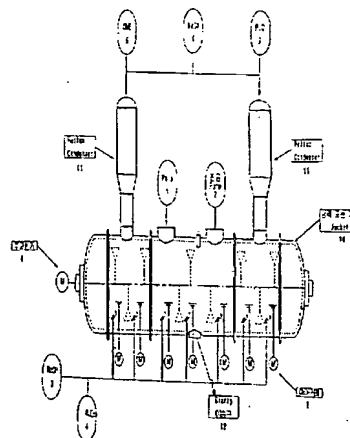
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## (54) REACTOR FOR SYNTHESIZING SUBSTITUTED CELLULOSE ESTER

## (57) Abstract:

PURPOSE: A reactor is provided for continuously synthesizing the substituted cellulose ester in a proper reaction condition, which has a uniform distribution of the substituted radicals through the repeated units. CONSTITUTION: The reactor for continuously synthesizing the substituted cellulose ester comprises: a main stirrer (8) in the center of the reactor to stirring the reactants by rotation; seven choppers(9) in the lower part of reactor; a vacuum generator (2) to reduce the reactive pressure in the reactor; an inlet(1) to introduce raw material of cellulose; reserver(3) of NaOH aqueous solution; reserver(4) of catalyst; reserver(5) of dimethyl ester; reserver(6) of methane chloride; reserver(7) of alkylene oxide; and cooler/heater(10), condenser(11) and slurry carrier(12). The chopper(9) assists the effective mixing and reaction of the reactants, and NaOH solution is sprayed around the hopper(9).



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